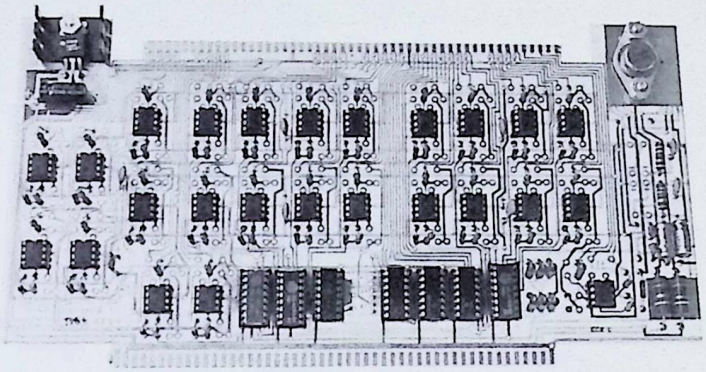
88-Multiplexer

The 88-MUX can greatly expand the input capacity of the 88-A/D Converter board for those applications requiring a large number of analog inputs. The 88-MUX provides 24 single-ended analog input channels with optional differential inputs for use in low noise/small signal applications.* With these optional inputs or by simple component modifications, the 88-MUX can be set up to handle a differential input on each channel.

The 88-MUX is utilized in conjunction with the Analog-to-Digital Converter board. Both boards occupy one slot on the Altair 8800 motherboard and are connected by a 12-pair shielded cable to a 25-pin DB connector on the computer's back panel.



Capabilities

Settling time of the output to .01% of the final value occurs within 15 microseconds.

Input impedance is approximately 1 megohm, while offset is 5 mv (max).

Power Requirements

+ 5v at 40 mA
+ 15v at 180 mA
− 15v at 180 mA

Special Features

By selecting the proper feedback resistors, gain can be set from 1 to 1,000.

A maximum of four 88-MUX cards may be added to a system, providing a total of 96 channels.**

As an added bonus, each channel's filtering and scale factoring can be set independently. This feature allows a variety of I/O devices to operate simultaneously, thus providing great flexibility of system design.†

Options

*Specify 88-MUX Option #1 when ordering — Useful for tracking signal increments less than 50 mv. Consists of differential inputs and a special cable.

**Specify 88-MUX Option #2 when ordering — Required for all systems using more than one 88-MUX card. Consists of a special cable harness.

† Not available with 88-MUX Option #1.

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